

**CLAIMS**

**We Claim:**

1        **1.**     A system for communications between computers in a CIM and DMI  
2 network, comprising:

3           a proxy CIMOM in communications with a plurality of CIM client applications;  
4           a DMI service provider in communications with a plurality of DMI component  
5 instrumentation;

6           a CIM to DMI provider connected to the proxy CIMOM and the DMI service  
7 provider to register the plurality of CIM client applications and the plurality of DMI  
8 component instrumentation, receive events from the DMI service provider, receive  
9 interrupts from the proxy CIMOM, receive information from both the proxy CIMOM and  
10 the DMI service provider and translate all said interrupts, said events, and said  
11 information into a format suitable for an intended recipient, wherein said intended  
12 recipient may be either the proxy of CIM client applications or the plurality of DMI  
13 component instrumentation.

1        **2.**     The system recited in claim 1, wherein the CIM to DMI provider further  
2 comprises:

3           a DMI events and CIM requests processing module to register the plurality of  
4 CIM client applications and the plurality of DMI component instrumentation, receive  
5 events from the DMI service provider, receive interrupts from the proxy CIMOM,  
6 receive information from both the proxy CIMOM and the DMI service provider.

1           **3.**     The system recited in claim 2, wherein the CIM to DMI provider further  
2 comprises:

3           a CIM to DMI translation module connected to the DMI events and CIM  
4 requesting module to translate DMI requests and messages to CIM objects and to  
5 translate CIM objects to DMI requests and messages.

1           **4.**     The system recited in claim 3, wherein the CIM to DMI provider further  
2 comprises:

3           a CIMOM interface provider connected to the proxy CIMOM and the DMI  
4 events and CIM requests processing module to receive CIM client application  
5 requests and transmit the CIM client application requests to the DMI events and CIM  
6 request processing module and receive CIM objects from the DMI events and CIM  
7 requests processing module and transmit the CIM objects to the proxy CIMOM.

1           **5.**     The system recited in claim 3, wherein the CIM to DMI provider further  
2 comprises:

3           a DMI event callback interface module connected to the DMI service provider  
4 and the DMI events and CIM requests processing module to receive DMI events and  
5 transmit the DMI events to the DMI events and CIM requests processing module.

1           **6.**     The system recited in claim 5, wherein the CIM to DMI provider further  
2 comprises:

3 a CIMOM event interface connected to the proxy CIMOM and the DMI events  
4 and CIM requests processing module to transmit CIM interrupts to the proxy CIMOM  
5 translated from the DMI events received by the DMI event callback interface and  
6 transmitted by the DMI events and CIM requests processing module using the CIM to  
7 DMI translation module.

1 7. The system recited in claim 3, wherein the CIM to DMI provider further  
2 comprises:

3 a CIM provider callback interface connected to the proxy CIMOM and the DMI  
4 events and CIM requests processing module to receive CIM requests from the  
5 plurality of CIM client applications and transmit them to the DMI events and CIM  
6 requests processing module and to transmit to the proxy CIM all the translated DMI  
7 events received from the DMI events and CIM requests processing module.

1 8. The system recited in claim 7, wherein the CIM to DMI provider further  
2 comprises:

3 a DMI management client interface connected to the DMI service provider and  
4 the DMI events and CIM requests processing module to receive DMI requests from  
5 the DMI service provider and transmit them to the DMI events and CIM request  
6 processing module and receive from the DMI events and CIM requests processing  
7 module CIM requests translated into DMI format and transmitting the DMI formatted  
8 CIM requests to the DMI service provider.

1           **9.**     A method of communicating between computers in a CIM network and  
2 a DMI network, comprising:  
3           instantiating an object request for a class by a CIM client application;  
4           transmitting the object request to a proxy CIMOM that relays the object request  
5 to a CIM to DMI provider;  
6           translating the object request to a DMI request; and  
7           transmitting to the DMI request to a DMI component instrumentation via a DMI  
8 service provider.

1           **10.**   The method recited in claim 9, further comprising:  
2           transmitting an event generated by the DMI component instrumentation to the  
3 CIM to DMI provider via the DMI service provider;  
4           translating the event into a CIM interrupt; and  
5           transmitting the CIM interrupt to a CIM client application via a proxy CIMOM.

1           **11.**   The method recited in claim 9, further comprising:  
2           registering a CIM to DMI provider with a DMI service provider as a DMI  
3 management application;  
4           receiving a DMI event or CIM request;  
5           translating the DMI event into a CIM interrupt or the CIM request into a DMI  
6 request; and  
7           transmitting the translated CIM interrupt to the CIM client application or the  
8 translated DMI request to the DMI component instrumentation.

1           **12.**   The method recited in claim 9, wherein translating the object request to  
2 a DMI request is done by a CIM to DMI translation module.

1           **13.**   A computer program embodied on a computer readable medium  
2 executable by a computer, comprising:

3           instantiating an object request for a class by a CIM client application;  
4           transmitting the object request to a proxy CIMOM that relays the object request  
5 to a CIM to DMI provider;  
6           translating the object request to a DMI request; and  
7           transmitting the DMI request to a DMI component instrumentation via a DMI  
8 service provider.

1           **14.**   The computer program recited in claim 13, further comprising:  
2           transmitting an event generated by the DMI component instrumentation to the  
3 CIM to DMI provider via the DMI service provider;  
4           translating the event into a CIM interrupt; and  
5           transmitting the CIM interrupt to a CIM client application via a proxy CIMOM.

1           **15.**   The computer program recited in claim 13, further comprising:  
2           registering a CIM to DMI provider with a DMI service provider as a DMI  
3 management application;  
4           receiving a DMI event or CIM request;

5 translating the DMI event into a CIM interrupt or the CIM request into a DMI  
6 request; and  
7 transmitting the translated CIM interrupt to the CIM client application or the  
8 translated DMI request to the DMI component instrumentation.

1 **16.** The computer program recited in claim 13, wherein translating the object  
2 request to a DMI request is done by a CIM to DMI translation module.